

Relation of the Electric Conductivity of Quartz
Crystals to the Electric Field, the Temperature
and the Magnetic Field, by P. E. Sarzhevskiy,
12 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXXII, No 4,
1952, pp 571-574.

8
SLA Tr R-882

Sci - Electricity, Physics 52, 274

Sep 57

Photoluminescence of Sublimate Phosphor of Silver
Iodide, by E. V. Shalimova, N. S. Mendakov, 10 pp.

RUSSIAN, 3 thrice-mo per, Dok Ak Nauk SSSR, Vol
LXXVII, No 4, 1952, pp 575-578.

CIA/PDD/X-1377

PHYSICS

Scientific - Chemistry
CPS/DEX

OTS 77-62-28159 (RUSSIAN L. FRENCH) 723

Korshak, V. V., Chelnokova, G. N. and Distler, G. I.
DE L'IMPORTANCE DES RÉACTIONS D'ÉCHANGE
DANS LA POLYCONDENSATION (Role of Exchange
Reaction in the Polycondensation Process). Sp. Srefs.
CNRS-VIII bis 275.
Order from OTS, ETC or CNRS \$1.10 TT-62-26717

Trans. in French of Akademiya Nauk SSSR, Doklady,
1952, v. 82, no. 4, p. 589-591.
Another trans. is available in English from OTS,
SLA or ETC as TT-63-18667 [1963] 6p.

DESCRIPTORS: Exchange reactions, *Condensation
reactions, Polymers, Carbon compounds, *X-ray
diffraction analysis.

(Chemistry--Organic. TT, v. 11, no. 11)

TT- 62-26717

- I. Korshak, V.V.
- II. Chelnokova, G.N.
- III. Distler, G. I.
- IV. CNRS-VIII bis 275
- V. Centre National de la
Recherche Scientifique,
Paris

Office of Technical Services
European Translations Centre

Ideal Type of Diagram of the Crystallization of Double-
Component Peritectic Solid Solution, by V. M. Kravchenko.
Full translation.

RUSSIAN, no per, Dok Ak Nauk SSSR, Vol XXCII, 1952,
pp 597-600.

AEC Tr 1422

USSR

Scientific - Chemistry, crystallization, peritectic

Nov 52 CTS/DEX

Reaction Between Ammonia and Oleic Acid
Oxide, by G. V. Pigulevskiy and I. L.
Kuranova.

RUSSIAN, per, Doklady Akad Nauk SSSR,
1952, Vol 82, No 4, pp 601-602.
NLL RTS 2656 (On Loan or Purchase)

Aug 65

287,019

Effect of the Intramolecular Hydrogen Bond on the
Color of Indoniline Dyes of α -Naphthol Derivatives,
by B. S. Portnaya, I. I. Levkoyev, H. S. Spasokukotsky,
4 pp.

RUSSIAN, ~~per~~ thrice-mo per, Dok Ak Nauk SSSR, Vol.
LXXVII, No 4, pp 603-605.
(1952)

CIA/FDD X-2787

CLH R-2319
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Sci - Phys
Mar 58

Effect of Ultrasonic Waves on Purine and Pyrimidine
Bases, by I. E. Elpiner, Ts. B. Kats, 7 pp.

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LXXXII, No 4, Feb 1952, pp 611-614.

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Scientific - Medicine, rancef research, chemistry

Oct 53 CTS

4886

Biosynthesis of Anserine, by H. A. Yudaev.

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pp 615-617.

Nova Scotia No 213

USSR

Scientific - Medicine, biochemistry

Aug 53 GTS

4794

On the Question of Determination of the Origin
of Beryl, by M. D. Dorfman, 5 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR,
Vol LXXXII, No 4, 1952, pp 623-624.

SLA R-1212

May 58

63,907

Some Results On the Maximum Discrepancy Between
Two Empirical Distributions, by B. V. Gnedenko, 6 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol LXXXII,
No 5, 1952, pp 661-663.

Sci Tr Center RT-339

Scientific - Mathematics

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On the Depth of Secondary Electron Emission, by
M. M. Vudynskiy, 7 pp. UNCLASSIFIED

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol
~~XXXX~~ LXXXII, No 5, 1952, pp 705-708.

RT-4050

Air Res and Dev Command
Baltimore, Md.

T-261-RU

Scientific - Physics

Jun 54 CTS/DEX

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Duration of the Excited State of Some Phosphors, by
K. V. Shalimova, T. P. Belikova, 7 pp.

Full translation.

RUSSIAN, per, Dok Ak Nauk SSSR, ~~Vol LXXII~~ Vol LXXII,
No 5, 1952, pp 713-716.

112 1 1 1 1
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USSR

Scientific - Physics

CTS/DEX

3826

Change of Fluorescence Spectrum of Magnesium
Phthalocyanin and Chlorophyll as a Result of a
Dark Reaction, by V. F. Gachkovskiy, 8 6 pp.

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Vol LXXXII, 1952, pp 739-742.

SLA R-1258

May 58

64, 622

A New Method of Investigating the Ion Spectrum in
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No 5, 1952, pp 717-718.

Air Res and Dev Command
T-61 R U +

Scientific - Geophysics

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Jul 54 CTS

Crystal Structure of the Higher Oxides of
Metals of Group I of the Periodic System, by
G. S. Zhdanov, Z. V. Zvonkova, 7 pp.
RUSSIAN, per, Dokl Akad Nauk SSSR, Vol 82,
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AEC ORNL tr-895

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Sci - Materials

On the Determination of the Surface Tension of
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et al.

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52
Coop Trans Scheme Tr 226
L1.12a.

Sci - Physics

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Jul 1956

Directed Valences for Coordination Numbers 6 and 8,
by M. G. Shlimazan, M. E. Dyatkina, 3 pp.

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No 5, 1952, pp 755, 756.

36,083
Sci Tr Center
RT-3740

Scientific - Mathematics

Jun 56/dex

New Data on the Deposition of Crystalline
Substance on the Walls of a Liquid Inclusion,
by G. G. Lemmlein & M. O. Kliya.
RUSSIAN, per, Dok. Akad Nauk SSSR, No 62, 1952,
pp 763-768.

AEC-WAPD-Trans-80

F911043268

Sci/Bar Sci
Apr 68

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Formation of Active Reducing Compounds Surviving
the Period of Illumination in Colloidal Solutions
of the Green Substances of Leaves, by A. A.
Krasnovski, L. M. Kosobutskaya, 9 pp.
UNCLASSIFIED

Full translation.

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LXXXII, 1952, pp 761-764.

AEC Tr 2034

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Scientific - Chemistry Jun 53 CTS/DEX

New Data on the Deposition of Crystal Substance
on the Walls of Cavities of Liquid Inclusions,
by G. G. Lemmlein, M. O. Kliia, 12 pp.

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SIA R-1203

May 58

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178/60

(SF-1047)

The Abrasion Index of Rubber and Its Connectio
With the Coefficient of Friction, by S. B. Rat
6 pp.

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1952, pp 743-746.

JPRS 4051

Sci - Chem
Oct 60

128,400

V
Action of Fertilizer on the Photosynthetic Activity
of Phytoplankton in a Water Reservoir, by S. S.
Baslavskaya, O. I. Koblents-Mishke, L. A. Udalova,
E. A. Chistyakova, 6 pp. UNCLASSIFIED.

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CIA/FDD/X-1465

Scientific - Biology

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On the Empirical Distribution Function in the Case of
Grouping of the Data, ~~Exppz~~ by I. I. Gikhman, 8 pp.

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No 6, 1952, pp 837-840.

Sci Tr Center RT-338

Scientific - Mathematics

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On the Distribution of the Number of Excesses of One
Empirical Distribution Function Over Another, by
B. V. Gnedenko, V. S. Mikhalevich, 6 pp.

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Sci Tr Center RT-337

Scientific - Mathematics

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Heat Conduction in a Non-Uniform Rod, by A. E.
Datsev, 8 pp.

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Sci Trans Center
RT-1759

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Scientific - Physics

Dec 54 CTS/DEX

Concerning the Origin of Heavy Fragments of High
Energy Upon the Disintegration of Nuclei by
Cosmic Rays, by V. I. Veksler, 2 pp. UNCLASSIFIED

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AEC/UCRL-Tr 179

Scientific - Nuclear Physics

17,822

On the Thermal and Thermoelectric Properties of
Ferromagnetic Metals, by A. I. Rezanov, 4 pp.

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Envy Tr 3221/MRL 907
OTS TT-62-11752

Sci - Min/Metals

Sep 62

211, 287

An Isomorphic Series of Double Oxides A_2BO_5 With a Structure of the Anosovite Type, by G. S. Zhdanov, A. A. Rusakov, 6 pp.

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Sci - Chemistry, physics

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The Humic Acid of Estuarine Mud and Its Biological Activity, by V. A. Biber, N. S. Bogolyubova.

Full translation.

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Scientific - Biology

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Jun 53 CTS

(Cooperative Translation Scheme)

Investigation of Protein Surface Films Absorbing
Hydrophobic Substances, by G. A. Bolotin, G. B.
Gorbachev, 7 pp.

Full translation.

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No 6, 1952, pp 943-946.

CIA/RMD/X-985

Scientific - Chemistry Aug 53 CTS/DBK

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V
Preparations of Phycocerythrin From Red Algae and Its
Spectroscopic and Photochemical Properties, by
A. A. Krasnovsky, et al, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXXII, No 6,
1952, pp 947-950.

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RT - 3717

Sci - Chemistry

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Aug 1956

Correlation of Lower Permian Deposits by Chemical
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Assoc Tech Sv RJ-737

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Sci - Chemistry
Aug 57

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A New Type of a Gas Thermometer and the Determination
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Borovik-Romanov, P. G. Strelkov, 6 pp.

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pp 59-61.

AEC Tr 3233

Sci - Physics
Jun 58

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Zeldovich, Ya.
POLARISATION DES QUANTA Y LORS DE LA DISPERSION DE COMPTON DE 180° (On the Polarization of Gamma Quanta in Compton Scattering at 180°). 8p. 6refs. CNRS-X 228.
Order from OTS, ETC or CNRS \$0.80 TT-62-28118

Trans. in French of Akademiya Nauk SSSR, Doklady, 1952, v.83, no.1, p.63-66.

DESCRIPTORS: *Quantum mechanics, Energy, Polarization, *Electrons, Theory, *Spin, Compton scattering, Gamma rays.

(Physics--Theoretical, TT, v. 11, no. 6)

TT-62-28118

I. Zeldovich, Ya.
II. CNRS-X 228
III. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
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The Scattering of X-rays at Small Angles and the
Porous Structure of Active Carbons, by V. I.
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Sci Am Lib 53/2048

Sci -
Chem

74-62

V
Isomerization of Methylcyclopentane Under Pressure
in the Presence of Aluminum-Chloride, by M. G.
Gonikberg, A. F. Plate, A. E. Gavrilova.

RUSSIAN, thrice-mo per, Dok Ak Nauk USSR, Vol
LXXVIII, No 1, 1952, pp 81-83.

Assoc Tech Svc
Sci Tr Center
~~Sci Tr Center~~
RJ-157

SLA R-1452

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Scientific - Chemistry

Reaction of Cyclohexene With Dilute Nitric Acid,
by A. V. Topchiev, E. L. Fantalova.

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1953, pp 83-85.

~~*OO/C per memo 14 Oct 60~~

Sci - Chem

HTS 10/19/60

Oct 60

TT-62-28732

Kuz'minskii, A.S. and Lezhnev, N.N.
INFLUENCE MUTUELLE DE LA PHENYL-NAPHTHYL-
AMINE, DU SOUFRE ET DES ACCELERATEURS DE
VULCANISATION SUR L'OXYDATION DU CAOUT-
CHOUIC (O Sovmestnom Vliyanií Fenil-B-Naftilamina,
Sery i Uskoritelei Vulkanizatsii na Okislenie
Kauchuka) (Simultaneous Effects of Phenyl-B-Naphthyl-
amine, Sulfur and Vulcanization Accelerators on the
Oxidation of Rubber). 11p. (foreign text included)
5 refs. CNRS-VI 117.
Order from OTS, ETC or CNRS \$1.60 TT-62-28732

Trans. in French of Akademiya Nauk SSSR; Doklady,
1952, v.83, no.1, p.111-114.

DESCRIPTORS: Rubber, Oxidation, Sulfur,
Vulcanization, Antioxidants, Acceleration.

(Materials--Rubber, TT, v. 11, no. 8)

I. Kuz'minskii, A.S.
II. Lezhnev, N.N.
III. CNRS-VI 117
IV. Centre National de la Recherche
Scientifique, Paris

Office of Technical Services
European Translations Centre

Liberation of Hydrogen on an Iron Electrode in Alkali
Solutions at High Pressures, by S. Levina, and A.
Orlov, 2 pp. UNCLASSIFIED

Full translation.

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26 Mar 1954/10348
Navy Tr 630/HRL 397

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Scientific - Chemistry

Jul 52 CT8

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See Serial 6, for RT 6

The Influence of Oxidation on the Biological Activity
of Humic Acid, by V. A. Biber, V. P. Filatov.

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pp 121.

Dept of Int
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Central Experiment Sta,
Pittsburgh, Pa. No 374

Sci - Chem

May 59

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Butcher Sp No 0120

Gentile - Min/Metals

15,018

Influence of Medium Reaction and Nitrogen Source
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4 pp.

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SIA Tr R-1261

Sci

Jun 58

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A Process of Successive Approximations for Finding
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Sci Trans Center RT-837

Scientific - Mathematics
CTS/DEX

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CIA/FDD/X-964

Sci

NLL 10/27/54

3820

On the Influence of the Quenching Temperature
Upon the Quantity of Retained Austenite in Steel, by
V. D. Sadovskiy, G. N. ~~EG~~ Bogacheva,

RUSSIAN, thrice-no per, ~~ERI~~ Dok Ak Nauk SSSR,
Vol LXXXIII, No 2, 1952, pp 221-222

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Scientific - Min/Metals

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Crystal Structure of $\text{NaCl}_2 \cdot 2\text{H}_2\text{O}$, by L. N.
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Sol Tr Center
RT-4071

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Sol Tr Chemistry
c 1956 GTS/Gex

The Influence of Complex-Formation, Ionization,
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Chemical Activity during Nitration; the Synthesis of
Phenyltrinitro-Methane and its Properties, by
A. I. Titov, V. V. Smirnov, 5 pp UNCLASSIFIED

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Sci Tr Center
RT-1040

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Scientific

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Mirgalovskaya, 8 pp.

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AEC MP-Tr-539

Sci - Min/Met
May 61

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Isopiestic Character of Denaturation of the Protein
Molecule, by V. A. Belitsor, A. S. Tsyparevich,
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Full translation.

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ALL A. J. J.
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Scientific - Chemistry Aug 53 CTS/DEX

4570

Characteristics of Slags Obtained in the Production
of Ferromanganese Phosphorus in the Blast Furnace, by
L. Zegyanich

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Butcher Order No 3042
Price \$2.65

Scientific - Minerals/Metals Jun 53 CTS

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New Method of Pre-Planting Treatment of Kok-Sagyz
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USDA Trans 290

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Economic - Agriculture, kok-sagyz (rubber)
Scientific - Biology, kok-sagyz (rubber)

568

The State of Water in Plants, by M. M. Okuntsov, E. N. Tarasova, 3 pp.

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SLA Tr R-1262

Sci

Jun 58

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Linear Statistics and the Normal Law, by Iu. V. Linnik,
5 pp.

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Sci Tr Center, RT-787

Scientific - Mathematics

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Navy Tr 613/NaShips 530

Scientific - Engineering

Aug 53 CTS

4741

On the Behavior of Superconducting Films in the
Magnetic Field, by V. L. Ginzburg, 4 pp. UNCLASSIFIED

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1952, pp 385-388. *870 680 10*

Navy Tr 788/NRL 439

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Scientific - Physics

Jul 53 CTS

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Spectroanalysis of Phosphorus in Steel, by
E. S. Kudelya, A. S. Dem'yanchuk,

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXXIII,
No 3, 1952, pp 397,398.

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Scientific - Chemistry, Min/Metals

Jun 55 CTS

(SF-1043)

The Principle of Static Friction, by S. B.
Ratner, 6 pp.

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No 3, 1952, pp 443-446.

JPRS 4064

Sci - Electron

Oct 60

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The Change of Coordination Number on the
Melting of Metals, by O. Ya. Samoylov, 5 pp.

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AEC Tr 2318

RT-22

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Sci - Minerals/Metals

Dependence of absorption of Radiant Energy
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5 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR,
Vol LXXXIII, 1952, pp 477-480.

SLA R-1263

SLA 60-15215

May 58

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Chlorophyll Content in Buds of Woody Plants in
Winter and Spring, by T. N. Godnev, M. V.
Terent'eva, 3 pp.

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SIA R-1264

May 58

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The Thermal Inertia of Leaves, by V. G. Karmanov,
4 pp.

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SLA Tr R-1265

Sci

Jun 58

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Cosmic Electrons as a Source of the Radio Emission
of a Galaxy, by G. G. Getmantsev.

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Co-op Tr Sc 65

Sub Trans 55/2767

Scientific - Astronomy

$\approx 1.12s. (4B.Od.)$

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Apr 54 CTS

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Sensitizing Bacteria by Beta Rays to Action of High
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RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXXIII, No 4,
Apr 1952, pp 565-568. CIA 9018810

USDA

Sci - Med

May 58

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On the Stabilization of Austenite With Respect to
the Martensite Transformation, by G. N. Bogacheva,
V. D. Sadovskii.

RUSSIAN, no per. Dok Ak Nauk SSSR, Vol LXXIII, No 4,
1952, pp 569-572.

Bratcher Trans No 2905

Scientific - Metallurgy, steel, austenite, martensite,
alloys

Solubility of Liquid Ammonia in Compressed
Nitrogen at Pressures Up to 4000 Atmosphere,
by D. S. Tsiklis, 7 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR,
Vol LXXXIII, No 4, 1952, pp 585-588.

Sci Tr Center RT-2454

Scientific - Chemistry
Dec 55 GTS/DEX

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Chain Mechanism of Decomposition of H_2O_2 : The
Existence of the EO_2 Radical and the Higher
Hydrogen Peroxide of A. N. Babin, by N. M.
Kruglyakova, N. M. Emanuel', 8 pp.

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No 4, 1952, pp 593-596.

CIA/PDD/X-1087

Scientific - Chemistry CTS/DEX

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The Critical Magnetic Field of Superconducting Tin Film,
by N. V. Zavaritski, 4 pp. UNCLASSIFIED

Full translation.

RUSSIAN, thrice-mo per, Dok Ak Nauk, Vol XXCIII, No 4,
pp 665-668, 1951.

Navy Tr 684/NRL 414

Scientific - Physics, tin films

Dec 52 CTS/DEX

Variations in BaTiO_3 Single Crystals With Temperature,
by I. N. Belyaev et al.

Full translation.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXXIII, No 5,
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Butcher Tr 2979

Scientific - Crystals, BaTiO_3

Polarization of the Fluorescence of Organic
Crystals, by N. D. Zhevandrov, 7 pp.

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Sci Trans Center
RT-2067

Scientific - Physics

Jan 55 CTS/DEX

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Depletion of Grain Boundaries of Stainless Steels in
Chromium as Cause of Intergranular Corrosion, by
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